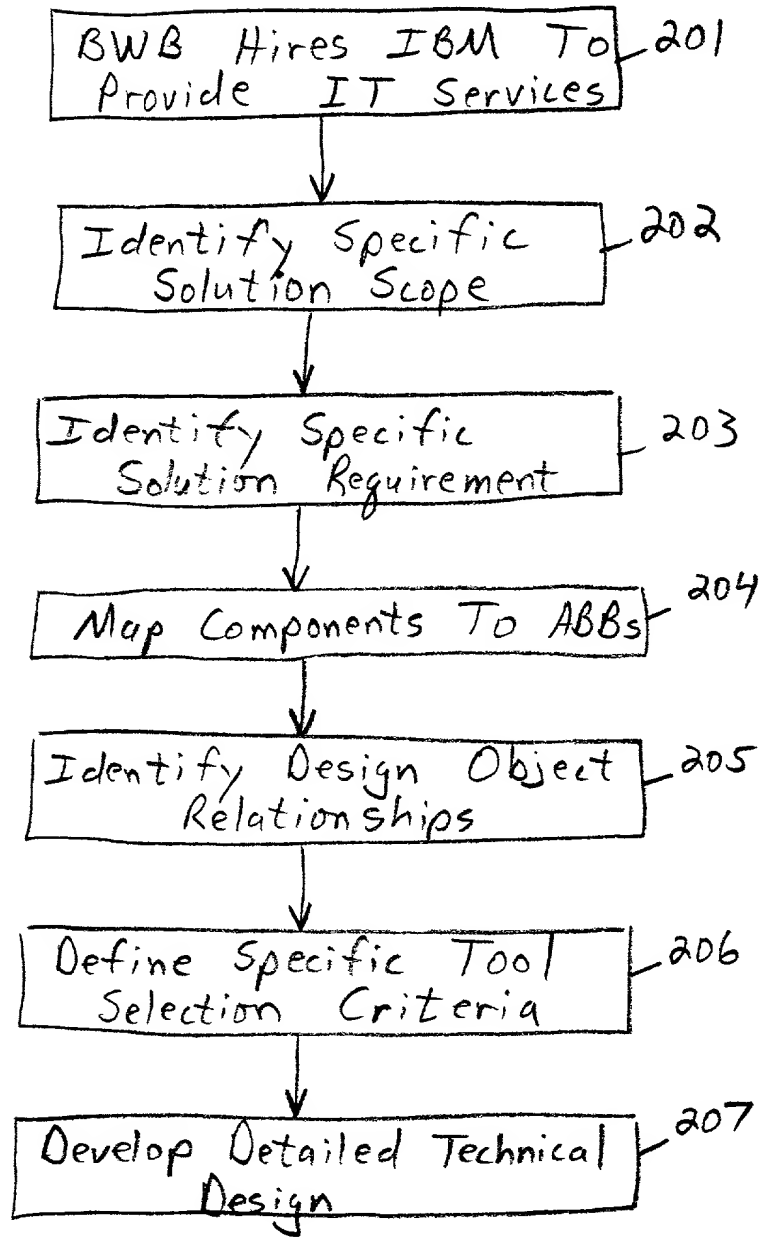




FIG. 2



# The ESD Technical Architecture

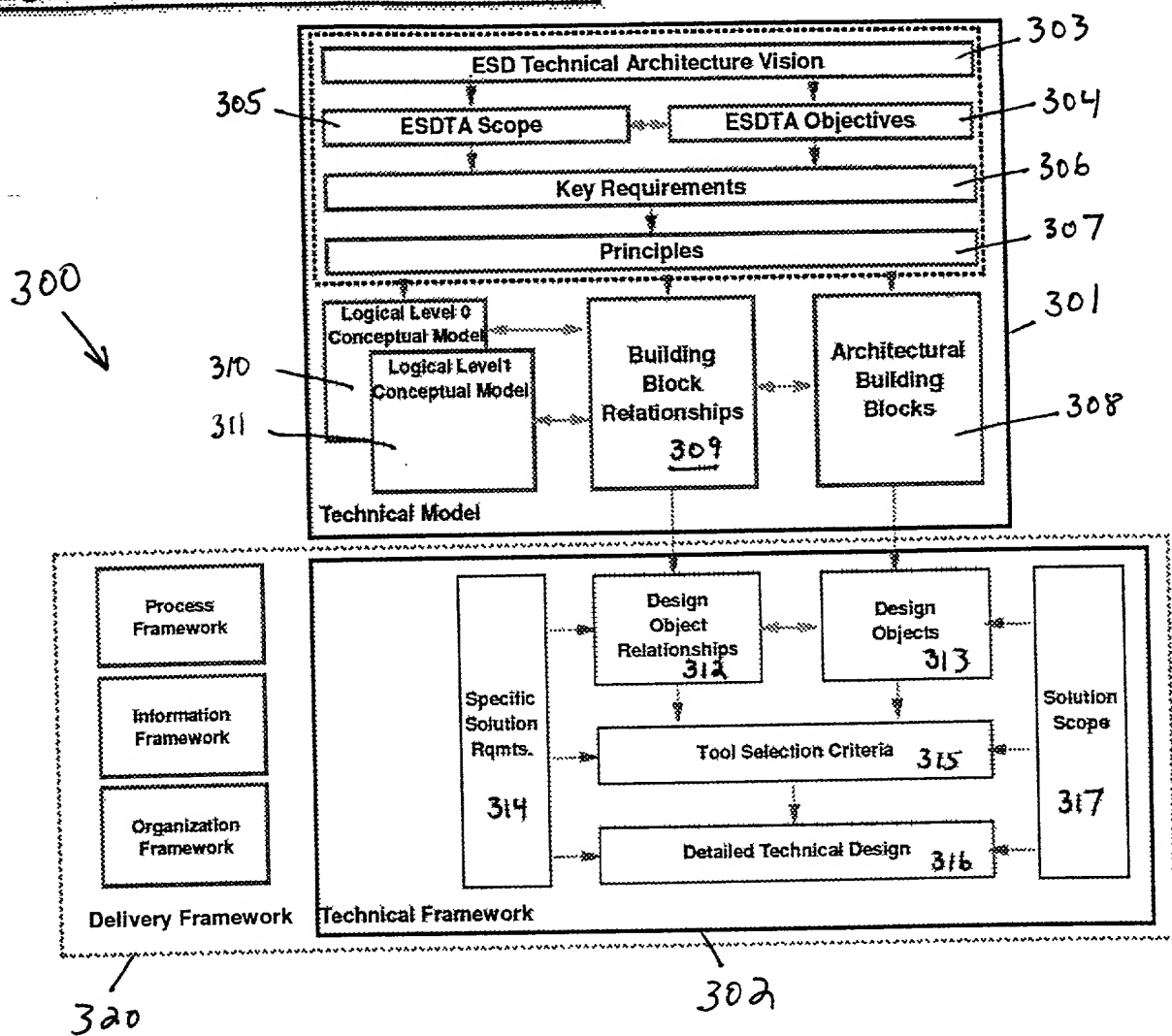


FIG. 3

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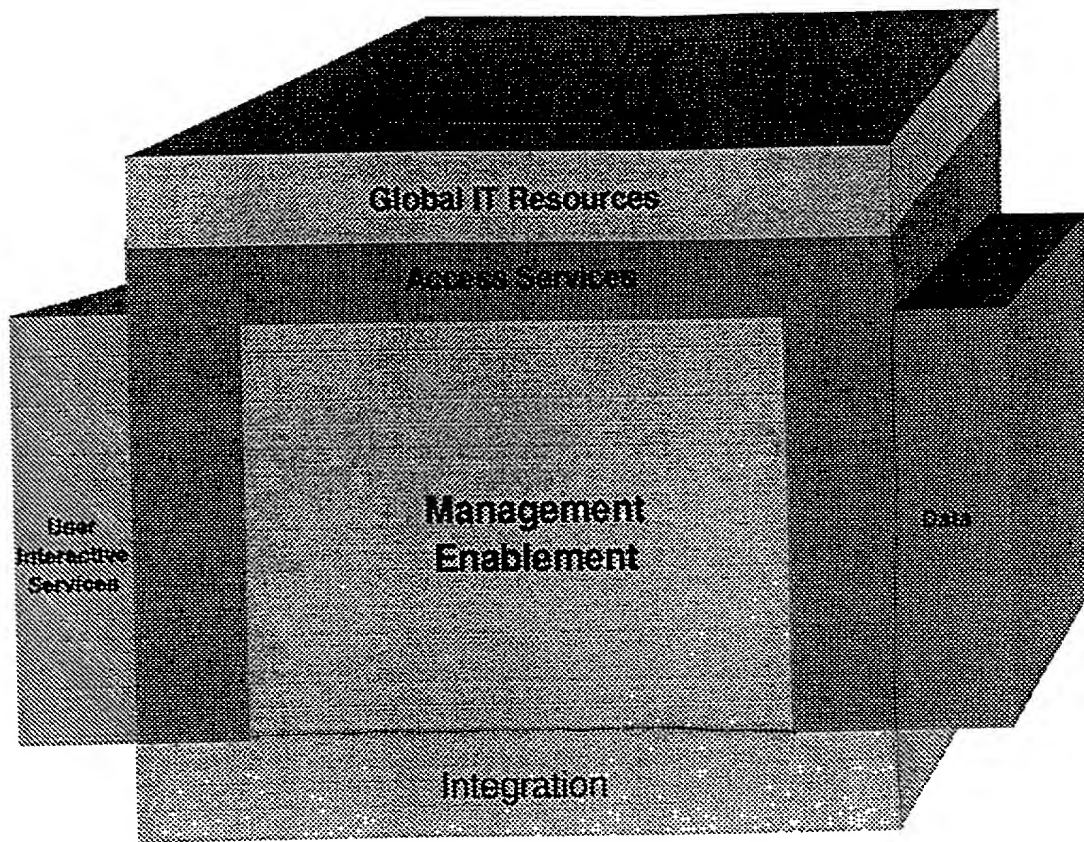


FIG. 4

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## ABB0: ME Management Enablement

- ABB1: ME-1 Analyze
  - ABB2: ME-1-1 Business Systems Modeling
  - ABB2: ME-1-2 Forecasting
  - ABB2: ME-1-4 Verifying
    - ABB3: ME-1-4-1 Check Status
    - ABB3 : ME-1-4-2 Check Progress
  - ABB2: ME-1-5 Correlating
  - etc.
- ABB1: ME-2 Control
  - ABB2: ME-2-1 Add
  - ABB2: ME-2-2 Remove
  - etc.
- etc.

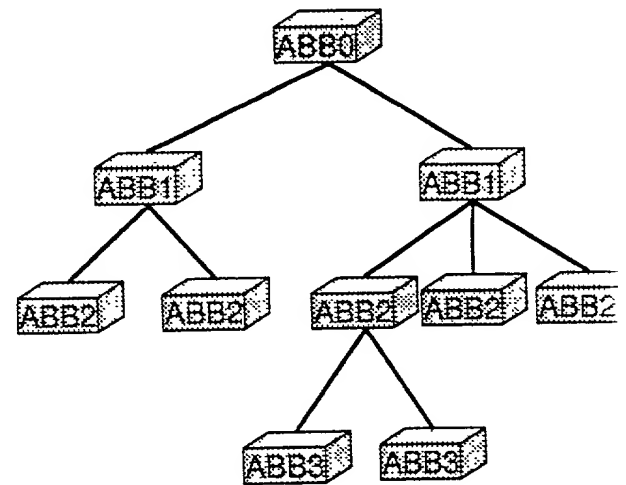


FIG. 5

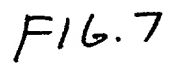
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From ABB	To ABB	Function	ABB1 N
UI-2	ME-1	To provide authentication	
UI-2	ME-1	To provide subscription	
UI-2	ME-1	To provide scheduling	
UI-2	ME-1	To perform an analysis request	
UI-3	ME-3	To provide the information needed to be rendered	
ME-1	ME-2	Perform action on an IT resource	Analyze
ME-1	ME-3	Communicate to a resource (people or IT resources)	
ME-1	ME-4	Synchronize activities	
ME-1	AS-2	For the transportation of information	
ME-1	DT-1	Receive and store data	
ME-1	IN-1	Perform any integration necessary between mgmt enablement	
ME-1	RS-0	Receive information from IT resources	
ME-1	UI-2	Receive request to analyze	

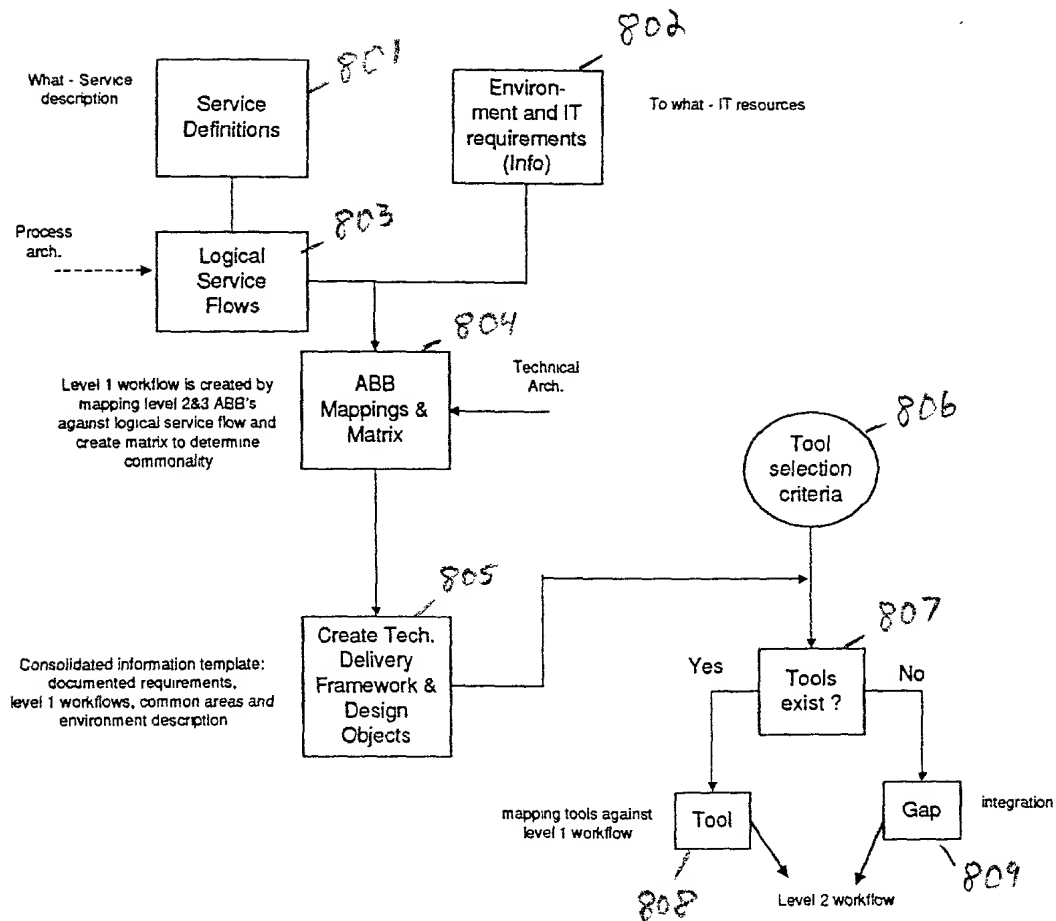
FIG. 6

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All patients (n = 114)		Patients with a history of AF (n = 57)		Patients without a history of AF (n = 57)	
	Mean (SD)		Mean (SD)		Mean (SD)
Age, years	65 (12)	65 (12)	65 (12)	65 (12)	65 (12)
Male sex, %	85	85	85	85	85
Previous MI, %	25	25	25	25	25
Previous stroke, %	10	10	10	10	10
Previous angina, %	35	35	35	35	35
Previous hypertension, %	45	45	45	45	45
Previous diabetes, %	15	15	15	15	15
Previous peripheral vascular disease, %	10	10	10	10	10
Previous renal disease, %	5	5	5	5	5
Previous liver disease, %	5	5	5	5	5
Previous lung disease, %	10	10	10	10	10
Previous cancer, %	10	10	10	10	10
Previous alcohol abuse, %	10	10	10	10	10
Previous drug abuse, %	10	10	10	10	10
Previous smoking, %	35	35	35	35	35
Previous family history of AF, %	10	10	10	10	10
Previous family history of MI, %	10	10	10	10	10
Previous family history of stroke, %	10	10	10	10	10
Previous family history of angina, %	10	10	10	10	10
Previous family history of hypertension, %	10	10	10	10	10
Previous family history of diabetes, %	10	10	10	10	10
Previous family history of peripheral vascular disease, %	10	10	10	10	10
Previous family history of renal disease, %	10	10	10	10	10
Previous family history of liver disease, %	10	10	10	10	10
Previous family history of lung disease, %	10	10	10	10	10
Previous family history of cancer, %	10	10	10	10	10
Previous family history of alcohol abuse, %	10	10	10	10	10
Previous family history of drug abuse, %	10	10	10	10	10
Previous family history of smoking, %	35	35	35	35	35
Previous family history of AF, %	10	10	10	10	10
Previous family history of MI, %	10	10	10	10	10
Previous family history of stroke, %	10	10	10	10	10
Previous family history of angina, %	10	10	10	10	10
Previous family history of hypertension, %	10	10	10	10	10
Previous family history of diabetes, %	10	10	10	10	10
Previous family history of peripheral vascular disease, %	10	10	10	10	10
Previous family history of renal disease, %	10	10	10	10	10
Previous family history of liver disease, %	10	10	10	10	10
Previous family history of lung disease, %	10	10	10	10	10
Previous family history of cancer, %	10	10	10	10	10
Previous family history of alcohol abuse, %	10	10	10	10	10
Previous family history of drug abuse, %	10	10	10	10	10
Previous family history of smoking, %	35	35	35	35	35
Previous family history of AF, %	10	10	10	10	10
Previous family history of MI, %	10	10	10	10	10
Previous family history of stroke, %	10	10	10	10	10
Previous family history of angina, %	10	10	10	10	10
Previous family history of hypertension, %	10	10	10	10	10
Previous family history of diabetes, %	10	10	10	10	10
Previous family history of peripheral vascular disease, %	10	10	10	10	10
Previous family history of renal disease, %	10	10	10	10	10
Previous family history of liver disease, %	10	10	10	10	10
Previous family history of lung disease, %	10	10	10	10	10
Previous family history of cancer, %	10	10	10	10	10
Previous family history of alcohol abuse, %	10	10	10	10	10
Previous family history of drug abuse, %	10	10	10	10	10
Previous family history of smoking, %	35	35	35	35	35
Previous family history of AF, %	10	10	10	10	10
Previous family history of MI, %	10	10	10	10	10
Previous family history of stroke, %	10	10	10	10	10
Previous family history of angina, %	10	10	10	10	10
Previous family history of hypertension, %	10	10	10	10	10
Previous family history of diabetes, %	10	10	10	10	10
Previous family history of peripheral vascular disease, %	10	10	10	10	10
Previous family history of renal disease, %	10	10	10	10	10
Previous family history of liver disease, %	10	10	10	10	10
Previous family history					



F16.7





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Identifier	Location	Type	O/S	Software	Components
MF0001	New York	Mainframe	MVS	CICS	N/A
DASD001	New York	Data Store	N/A	N/A	2K TB Disk
SERV001	London	LAN Serv	Win NT	SAP	CPU, Disk
SERV002	Portsmouth	LAN Serv	Win NT	SAP	CPU, Disk
SERV003	Chicago	LAN Serv	Win NT	Novell	CPU, Disk
SERV xxx	Vancouver	Print Serv	Win NT	N/A	CPU, Disk
WS001	New York	Workstation	Win 95	MS Office	CPU, Disk
WS002	New York	Workstation	Win 95	MS Office	CPU, Disk
WS003	New York	Workstation	Linux	Netview	CPU, Disk
WS xxx	Vancouver	Workstation	Win 2000	MS Office	CPU, Disk
HUB001	New York	Hub	N/A	N/A	N/A
HUB xxx	Vancouver	Hub	N/A	N/A	N/A
ROUT001	New York	Router	N/A	N/A	N/A
ROUT xxx	Vancouver	Router	N/A	N/A	N/A

FIG. 9

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ABB	Type	O/S	Software	Components
RS1-1-1	Router	N/A	N/A	N/A
RS1-1-2	Hub	N/A	N/A	N/A
RS1-1-3	LAN Serv	Win NT	SAP	CPU, Disk
RS1-1-4	Print Serv	Win NT	N/A	CPU, Disk
RS2-2-20	Mainframe	MVS	CICS	N/A
RS2-2-21	Data Store	N/A	N/A	2K TB Disk
RS3-1-9	Workstation	Win 2000	MS Office	CPU, Disk
RS3-1-10	Workstation	Win 95	MS Office	CPU, Disk
RS3-1-11	Workstation	Linux	Netview	CPU, Disk
RSx-x-x	Workstation	Win 3.1	WP5.1	CPU, Disk

FIG. 10

Identifier	ABB
MF0001	RS2-2-20
DASD001	RS2-2-21
SERV001	RS1-1-3
SERV002	RS1-1-3
SERV003	RS1-1-5
SERVxxx	RS1-1-4
WS001	RS1-1-10
WS002	RS3-1-10
WS003	RS3-1-11
WSxxx	RS3-1-9
HUB001	RS1-1-2
HUBxxx	RS1-1-2
ROUT001	RS1-1-1
ROUTxxx	RS1-1-1

FIG. 11

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Identifier	ABB	Physical Relationship
MF0001	RS2-2-20	To HUB001
DASD001	RS2-2-21	To MF001
SERV001	RS1-1-3	To HUB001
SERV002	RS1-1-3	To HUB010
SERV003	RS1-1-5	To HUB030
SERVxxx	RS1-1-4	To HUBxxx
WS001	RS1-1-10	To HUB009
WS002	RS3-1-10	To HUB015
WS003	RS3-1-11	To HUB075
WSxxx	RS3-1-9	To HUBxxx
HUB001	RS1-1-2	To ROUT001
HUBxxx	RS1-1-2	To ROUTxxx
ROUT001	RS1-1-1	To ROUTxxx
ROUTxxx	RS1-1-1	To ROUT001

FIG. 12

Identifier	ABB	Physical Relationship	ABBs for Event Mgmt	ABBs for Problem Mgmt	ABBs Relationships
MF0001	RS2-2-20	To HUB001	List A	List B	Relate A
DASD001	RS2-2-21	To MF001	List C	List D	Relate B
SERV001	RS1-1-3	To HUB001	List E	List F	Relate C
SERV002	RS1-1-3	To HUB010	List E	List F	Relate C
SERV003	RS1-1-5	To HUB030	List G	List H	Relate D
SERVxxx	RS1-1-4	To HUBxxx	List I	List J	Relate E
WS001	RS1-1-10	To HUB009	List K	List L	Relate F
WS002	RS3-1-10	To HUB015	List K	List L	Relate F
WS003	RS3-1-11	To HUB075	List M	List N	Relate G
WSxxx	RS3-1-9	To HUBxxx	List O	List P	Relate H
HUB001	RS1-1-2	To ROUT001	List Q	List R	Relate H
HUBxxx	RS1-1-2	To ROUTxxx	List Q	List R	Relate H
ROUT001	RS1-1-1	To ROUTxxx	List S	List T	Relate I
ROUTxxx	RS1-1-1	To ROUT001	List S	List T	Relate I

FIG. 13

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▪ List A

- Event Mgmt for RS2-2-20
- Requires:
  - UI2-2-25 => Console S/W
  - AS1-2-3 => Security S/W
  - DT2-2-45 => System Logs
  - IN0-10-11 => Scripts
  - ME1-1-2 => Mgmt Agent
  - ME1-3-3 => Monitor Agent
  - RS25-10-4 => Mgmt Server

▪ Relate A

- Describes how ABBs need to be integrated for Event Mgmt
- UI2-2-25 <=> RS25-10-4
- UI2-2-25 <=> AS1-2-3
- DT2-2-45 => IN0-10-11
- ME1-1-2 => DT2-2-45
- ME1-3-3 => DT2-2-45
- DT2-2-45 => RS25-10-4
- etc.

UI = User Interface	AS = Access Services	IN = Integration
DT = Data	ME = Management Enablement	RS = Global IT Resources

FIG. 14

ABB	US2-2-25	AS1-2-3	ME1-1-2	...	RS25-10-4
RS2-2-20	Required	Required	Required		Required
RS2-2-21	Required		Required		Required
RS1-1-2		Required			Required
RS1-1-3			Required		
RS1-1-5	Required		Required		
...	...	...	...	...	...
RS1-1-4	Required	Required			
RS1-1-10		Required			Required
RS3-1-10			Required		
RS3-1-11	Required		Required		
...	...	...	...	...	...

Design Object 1

RS2-2-20 + RS2-2-21 + RS1-1-2 + RS25-10-4

Design Object 2

RS1-1-4 + US2-2-25 + AS1-2-3

...Design Object x

ME1-1-2 working on RS2-2-20 and RS2-2-21

FIG. 15

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"Design Object" 1 is

- RS2-2-20 => Mainframe
- RS2-2-21 => Data Store
- RS1-1-2 => Hub
- RS25-10-4 => Management Server

We Know How These All Relate

- Physical and ABB Model Relationships

We Know Attributes such as O/S, S/W, etc.

We Identify Specific Requirements/Criteria

- Management server running on MVS
- Manages Data Stores and Hubs
- etc.

Available Tools

Netview Server  
Computer Associates Unicenter  
... Product XYZ

Compare Tools  
To Requirements

Select Netview Server to Satisfy  
"Design Object 1" Requirements

FIG. 16

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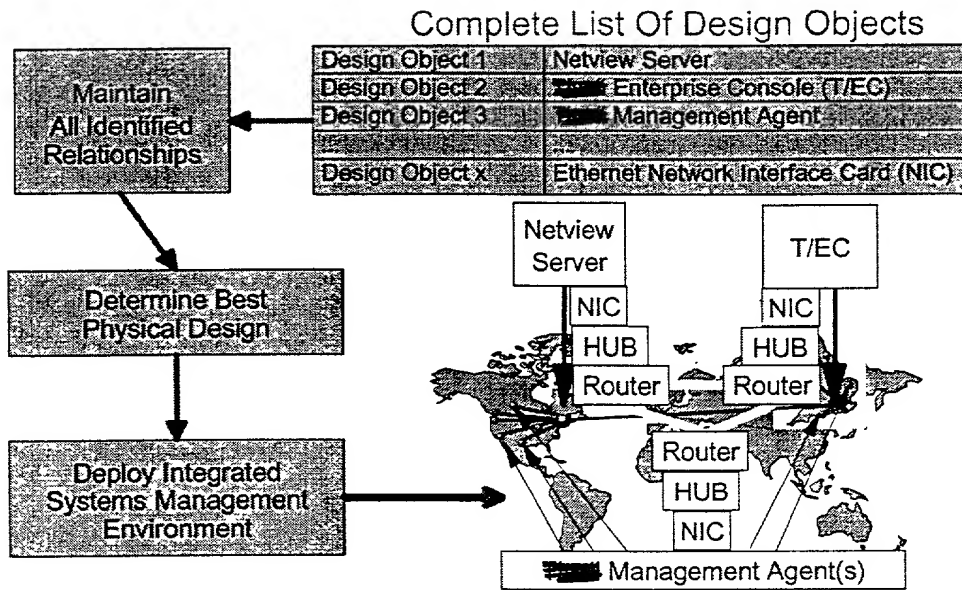


FIG. 17

FIG. 17

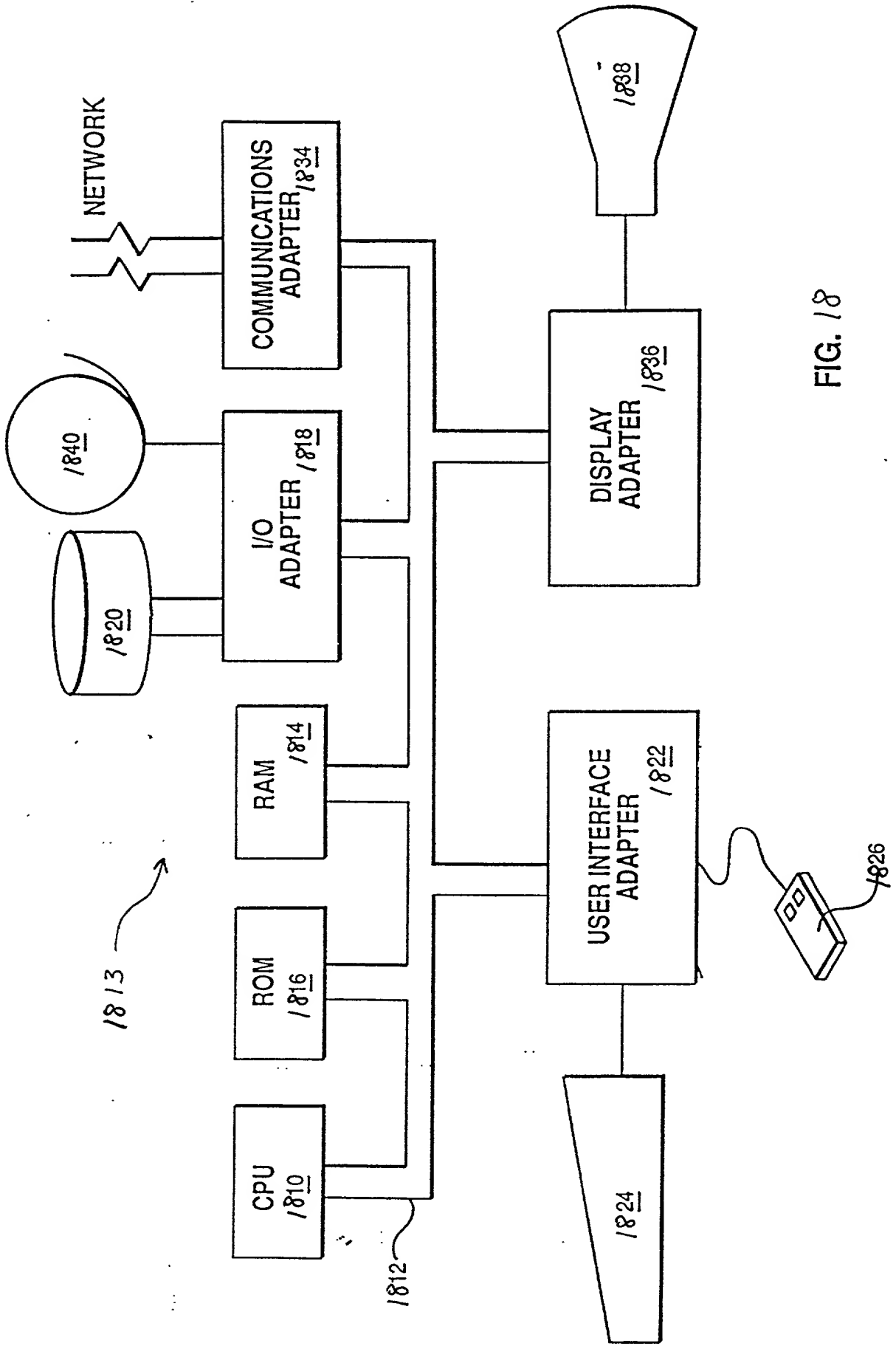


FIG. 18